Kingbright

P/N: L-53GD-12V GREEN

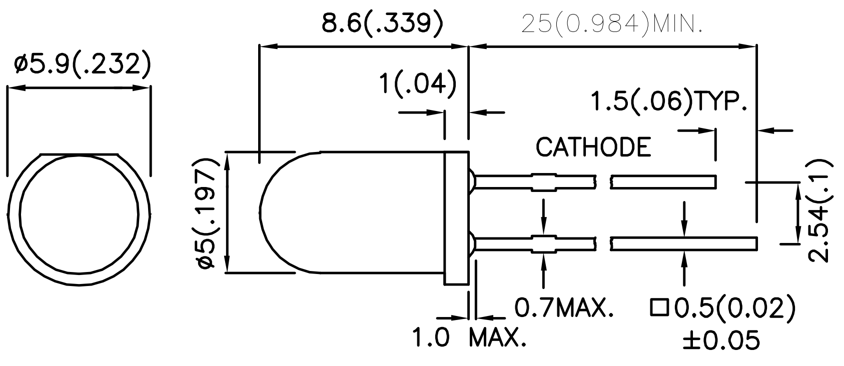
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- 12V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Specifications are subject to change without notice.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] V= 12V		Viewing Angle [1]
			Min.	Typ.	2 θ 1/2
L-53GD-12V	GREEN (GaP)	GREEN DIFFUSED	8	20	60°

Notes:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
2. Luminous Intensity / Luminous Flux: +/-15%.

Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	V_F=12V
λD [1]	Dominant Wavelength	Green	568		nm	V_F=12V
Δλ1/2	Spectral Line Half-width	Green	30		nm	V_F=12V
I_F	Forward Current	Green	8.5	11.5	mA	V_F=12V
I_R	Reverse Current	Green		10	uA	V_R = 5V

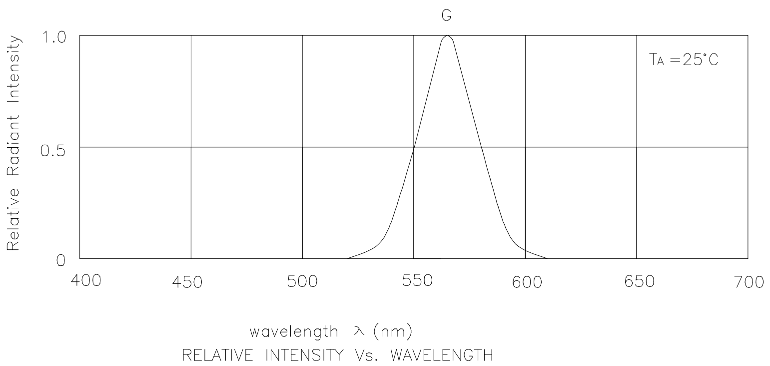
Note:

1. Wavelength: +/-1nm.

Absolute Maximum Ratings at T_A=25°C

Parameter	Green	Units
Power dissipation	120	mW
Forward Voltage	14	V
Reverse Voltage	5	V
Operating Temperature	-40°C To +70°C	
Storage Temperature	-40°C To +85°C	
Lead Solder Temperature[1]	260°C For 3 Seconds	
Lead Solder Temperature[2]	260°C For 5 Seconds	

Notes:
1. 2mm below package base.
2. 5mm below package base.



Green **L-53GD-12V**

